



RECORD COPY

Westinghouse Hanford Company  
P.O. Box 1970  
Richland, WA 99352

Dear Mr. Lerch:

Thank you for purchasing analytical testing services from IT Corporation. It is our intention to supply our clients with data packages which not only meet the industry's highest standards for quality, but are also easy to use. Features which we point out are:

1. A Data Summary Packet which allows you to review your data without searching through the complete data package.

Your Data Summary Packet contains the following items:

- Case Narrative: listing of sample identifications, analyses performed, explanation of any problem associated with samples, corrective action taken.
- Quality control sample identifications and analyses performed.
- Data summary.

2. A data package which meets the specific requirements you requested and is easy to use as well. The package is organized in accordance with the Table of Contents which you will find at the beginning of each section. Sections are separated by color-coded tabs, making it easy to find individual analytical parameters which may be of particular interest to you. The data package is custody-sealed at the laboratory - your assurance that parts of the package are not missing.

We are constantly searching for ways to improve our service to you. This current product has many of the features which you have told us are important to you. Your suggestions regarding additional improvements will be appreciated.

Please contact me with any questions or suggestions.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Wade H. Price'.

Wade H. Price  
Project Manager



Regional Office

13715 N. Rider Trail • Earth City, Missouri 63045-1205 • 314-298-8566 • FAX: 314-298-8757

IT Corporation is a wholly owned subsidiary of International Technology Corporation

1 6/17/96 200



## CERTIFICATE OF ANALYSIS

Westinghouse Hanford Company  
P.O. Box 1970  
Richland, Washington 99352

July 14, 1994

Attention: J. A. Lerch

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Project number	:	519.45
Date Received by Lab	:	June 9, 1994
Number of Samples	:	Six (6)
Sample Type	:	Soil
SDG Number	:	W0089
Data Deliverable	:	<del>Summary</del> Stand Alone <sup>✓</sup> 7/20/94

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### I. Introduction

On June 9, 1994, six (6) soil samples were received by ITAS-Richland and transferred to ITAS-St. Louis for chemical analysis. Upon receipt, the samples were given the following laboratory ID numbers to correspond with the specific client ID's:

<u>St. Louis ID</u>	<u>WHC ID</u>	<u>Richland ID</u>	<u>Matrix</u>	<u>Date of Receipt</u>
5304-001	BO8NV8	40619801	Soil	06/09/94
5304-002	BO8NV9	40619802	Soil	06/09/94
5304-003	BO8NW1	40619803	Soil	06/09/94
5304-004	BO8NW2	40619804	Soil	06/09/94
5304-005	BO8NW3	40619805	Soil	06/09/94
5304-006	BO8NW4	40619806	Soil	06/09/94

000004

### II. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results, and the appropriate detection limits.

Analyses requested: TPH by EPA method 8015.

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Westinghouse Hanford Company

July 14, 1994

Project Number: 519.45

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### III. Quality Control

A Laboratory Control Sample and Method Blank were analyzed with each preparation batch. Matrix Spike and Matrix Spike Duplicate analyses were performed for all analytes in this SDG.

### IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank

QCLCS- Quality Control Laboratory Control Sample, Blank Spike

### V. Comments

The client asked for both diesel (called Fuel Oil #2 in the standard mixes) and for contaminants heavier than diesel to be quantitated by the method. Per our SOP, we calibrate everything using Fuel Oil #2. An initial calibration for Fuel Oil #2 is accompanied by an injection of Fuel Oil #1 (lower boiling) and waste oil (higher boiling, equivalent to motor oil) to show that the calibration factor for the three oils do not vary by more than 15%.

The sample chosen for preparation of MS and MSD, 5304-001, contained motor oil at a concentration of 1200 mg/kg. Diesel was spiked into the samples at 130 mg/kg, and although it was qualitatively detected by pattern, quantitation of the diesel was not possible. Therefore, the recovery of the MS and MSD spike are given as NC (not calculated). The recovery of the diesel spike in the LCS was 98%.

The surrogate recovery for 5304-001 MS (219%) was outside the laboratory-generated control limits of Detected to 217%. This was deemed to be due to matrix effect, and is flagged in the data report.

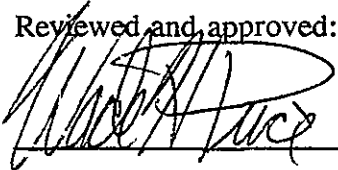
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Westinghouse Hanford Company  
July 14, 1994  
Project Number: 519.45  
Page 3

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I certify that this Certificate of Analysis is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

A handwritten signature in black ink, appearing to read 'Wade H. Price', written over a horizontal line.

Wade H. Price  
Project Manager  
z:\annclars\hanw0089.nar

000000

1D  
HBH ANALYSIS DATA SHEET

EPA SAMPLE NO.

B08NW1

Lab Name: ITAS-St. Louis

Contract: 519.45

Lab Code: ITSL Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: W0089

Matrix : (soil/water) SOIL Lab Sample ID: 5304-003

Sample wt/vol: 20.0 (g/ml) g Lab File ID: \_\_\_\_\_

Level: (low/med) LOW Date Sampled: 06-08-94

% Moisture: not dec. 8 dec. \_\_\_\_\_ Date Extracted: 06-22-94

Extraction: (SepF/Cont/Sonc/Shak) SONC Date Analyzed: 07-01-94

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Dilution Factor: 1

CAS NO.	Compound	CONCENTRATION UNITS:	
		(mg/L or mg/Kg)	mg/Kg
	DIESEL	27	U
	MOTOR OIL	460	

U: Concentration of analyte is less than the value given.

(1): Diesel and Motor Oil are quantitated as if they are Fuel Oil #2.

1D  
HBH ANALYSIS DATA SHEET

EPA SAMPLE NO.

BO8NW2

Lab Name: ITAS-St. Louis

Contract: 519.45

Lab Code: ITSL Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: W0089

Matrix : (soil/water) SOIL Lab Sample ID: 5304-004

Sample wt/vol: 20.1 (g/ml) g

Lab File ID: \_\_\_\_\_

Level: (low/med) LOW

Date Sampled: 06-08-94

% Moisture: not dec. 3 dec. \_\_\_\_\_

Date Extracted: 06-22-94

Extraction: (SepF/Cont/Sonc/Shak) SONC

Date Analyzed: 07-02-94

GPC Cleanup: (Y/N) N

pH: \_\_\_\_\_

Dilution Factor: 1

CAS NO.

Compound

CONCENTRATION UNITS:

(mg/L or mg/Kg) mg/Kg

Q

<u>DIESEL</u>	<u>26</u>	<u>U</u>
<u>MOTOR OIL</u>	<u>110</u>	

U: Concentration of analyte is less than the value given.

(1): Diesel and Motor Oil are quantitated as if they are Fuel Oil #2.

1D  
HBH ANALYSIS DATA SHEET

EPA SAMPLE NO.

B08NW3

Lab Name: ITAS-St. Louis Contract: 519.45

Lab Code: ITSL Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: W0089

Matrix : (soil/water) SOIL Lab Sample ID: 5304-005

Sample wt/vol: 20.0 (g/ml) g Lab File ID: \_\_\_\_\_

Level: (low/med) LOW Date Sampled: 06-08-94

% Moisture: not dec. 3 dec. \_\_\_\_\_ Date Extracted: 06-22-94

Extraction: (SepF/Cont/Sonc/Shak) SONC Date Analyzed: 07-02-94

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Dilution Factor: 1

CAS NO.	Compound	CONCENTRATION UNITS: (mg/L or mg/Kg) <u>mg/Kg</u>	Q
	<u>DIESEL</u>	<u>26</u>	<u>U</u>
	<u>MOTOR OIL</u>	<u>26</u>	<u>U</u>

U: Concentration of analyte is less than the value given.

(1): Diesel and Motor Oil are quantitated as if they are Fuel Oil #2.

000007

1D  
HBH ANALYSIS DATA SHEET

EPA SAMPLE NO. B08NW4
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Lab Name: ITAS-St. Louis Contract: 519.45

Lab Code: ITSL Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: W0089

Matrix : (soil/water) SOIL Lab Sample ID: 5304-006

Sample wt/vol: 20.0 (g/ml) g Lab File ID: \_\_\_\_\_

Level: (low/med) LOW Date Sampled: 06-08-94

% Moisture: not dec. 0 dec. \_\_\_\_\_ Date Extracted: 06-22-94

Extraction: (SepF/Cont/Sonc/Shak) SONC Date Analyzed: 07-01-94

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Dilution Factor: 1

CAS NO.	Compound	CONCENTRATION UNITS:		Q
		(mg/L or mg/Kg)	<u>mg/Kg</u>	
	<u>DIESEL</u>	<u>25</u>		<u>U</u>
	<u>MOTOR OIL</u>	<u>25</u>		<u>U</u>

U: Concentration of analyte is less than the value given.

(1): Diesel and Motor Oil are quantitated as if they are Fuel Oil #2.

000008



1D  
HBH ANALYSIS DATA SHEET

EPA SAMPLE NO.

BO8NV8

Lab Name: ITAS-St. Louis

Contract: 519.45

Lab Code: ITSL Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: W0089

Matrix : (soil/water) SOIL Lab Sample ID: 5304-001

Sample wt/vol: 20.0 (g/ml) g Lab File ID: \_\_\_\_\_

Level: (low/med) LOW Date Sampled: 06-08-94

% Moisture: not dec. 3 dec. \_\_\_\_\_ Date Extracted: 06-22-94

Extraction: (SepF/Cont/Sonc/Shak) SONC Date Analyzed: 07-02-94

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Dilution Factor: 1

CAS NO.	Compound	CONCENTRATION UNITS: (mg/L or mg/Kg) <u>mg/Kg</u>	Q
	<u>DIESEL</u>	<u>26</u>	<u>U</u>
	<u>MOTOR OIL</u>	<u>1200</u>	

U: Concentration of analyte is less than the value given.

(1): Diesel and Motor Oil are quantitated as if they are Fuel Oil #2.

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1D  
HBH ANALYSIS DATA SHEET

EPA SAMPLE NO.

BO8NV9

Lab Name: ITAS-St. Louis Contract: 519.45

Lab Code: ITSL Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: W0089

Matrix : (soil/water) SOIL Lab Sample ID: 5304-002

Sample wt/vol: 20.0 (g/ml) g Lab File ID: \_\_\_\_\_

Level: (low/med) LOW Date Sampled: 06-08-94

% Moisture: not dec. 3 dec. \_\_\_\_\_ Date Extracted: 06-22-94

Extraction: (SepF/Cont/Sonc/Shak) SONC Date Analyzed: 07-02-94

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Dilution Factor: 1

CAS NO.	Compound	CONCENTRATION UNITS: (mg/L or mg/Kg) <u>mg/Kg</u>		Q
	<u>DIESEL</u>	<u>26</u>	<u>U</u>	
	<u>MOTOR OIL</u>	<u>1100</u>		

U: Concentration of analyte is less than the value given.

(1): Diesel and Motor Oil are quantitated as if they are Fuel Oil #2.

Project Manager: W. Price  
 Draft: Final: Entered and Reviewed by: *Eric Miller*  
 PM Review: *WJH*

Sample Header Template:

Sample No.	Client ID	C-Matrix	Date Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
#	Container Type	Analysis	Class	Preservative Anal.	Due Date	Hold Date	Site	(Container Numbers: X Filled)

5304-001	BOBHV8	Soil	08-JUN-94 09:20	09-JUN-94 08:30	14-JUL-94	FED-EX	2	R2388-006
1	AN - Amber Glass-120ML	TPH/8015/04	S	COLD	07-JUL-94	22-JUN-94 RBE		(81927:100 81928:100)
2	AN - Amber Glass-60ML	PM/11/04	S	COLD	07-JUL-94	05-DEC-94 RBE		(81929:100)
5304-001M8	BOBHV8	Soil	08-JUN-94 09:20	09-JUN-94 08:30	14-JUL-94	FED-EX	2	R2388-006
1	AN - Amber Glass-120ML	TPH/8015/04	S	COLD	07-JUL-94	22-JUN-94 RBE		(81927:100 81928:100)
2	AN - Amber Glass-60ML	PM/11/04	S	COLD	07-JUL-94	05-DEC-94 RBE		(81929:100)
5304-001M9	BOBHV8	Soil	08-JUN-94 09:20	09-JUN-94 08:30	14-JUL-94	FED-EX	2	R2388-006
1	AN - Amber Glass-120ML	TPH/8015/04	S	COLD	07-JUL-94	22-JUN-94 RBE		(81927:100 81928:100)
2	AN - Amber Glass-60ML	PM/11/04	S	COLD	07-JUL-94	05-DEC-94 RBE		(81929:100)
5304-001M10	BOBHV8	Soil	08-JUN-94 09:20	09-JUN-94 08:30	14-JUL-94	FED-EX	2	R2388-006
1	AN - Amber Glass-120ML	TPH/8015/04	S	COLD	07-JUL-94	22-JUN-94 RBE		(81927:100 81928:100)
2	AN - Amber Glass-60ML	PM/11/04	S	COLD	07-JUL-94	05-DEC-94 RBE		(81929:100)
5304-002	BOBHV9	Soil	08-JUN-94 09:20	09-JUN-94 08:30	14-JUL-94	FED-EX	3	R2388-005
1	AN - Amber Glass-120ML	TPH/8015/04	S	COLD	07-JUL-94	22-JUN-94 RBE		(81927:100 81928:100)
2	AN - Amber Glass-60ML	PM/11/04	S	COLD	07-JUL-94	05-DEC-94 RBE		(81929:100)
5304-003	BOBHV1	Soil	08-JUN-94 09:45	09-JUN-94 08:30	14-JUL-94	FED-EX	3	R2388-004
1	AN - Amber Glass-120ML	TPH/8015/04	S	COLD	07-JUL-94	22-JUN-94 RBE		(81930:100 81931:100)
2	AN - Amber Glass-60ML	PM/11/04	S	COLD	07-JUL-94	05-DEC-94 RBE		(81932:100)
5304-004	BOBHV2	Soil	08-JUN-94 09:38	09-JUN-94 08:30	14-JUL-94	FED-EX	2	R2388-003
1	AN - Amber Glass-120ML	TPH/8015/04	S	COLD	07-JUL-94	22-JUN-94 RBE		(81936:100 81937:100)
2	AN - Amber Glass-60ML	PM/11/04	S	COLD	07-JUL-94	05-DEC-94 RBE		(81938:100)
5304-005	BOBHV3	Soil	08-JUN-94 09:29	09-JUN-94 08:30	14-JUL-94	FED-EX	2	R2388-002
1	AN - Amber Glass-120ML	TPH/8015/04	S	COLD	07-JUL-94	22-JUN-94 RBE		(81939:100 81940:100)
2	AN - Amber Glass-60ML	PM/11/04	S	COLD	07-JUL-94	05-DEC-94 RBE		(81941:100)

3\*Sample has not been red screened.

0000009

ITAS - St. Louis June 18, 1994 11:13 am  
Account: 10722 Project: 519.45 ITAS - Richland QAS No. 585 Rev. 0  
Master Sample Login: 5304

Project Manager: W. Price

Draft: Final: Entered and Reviewed by: PM Review:

Sample Header Template:

Sample No.	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)

5304-006	B08N14	Soil	08-JUN-94 13:00	09-JUN-94 08:30	14-JUL-94	FED-EX	2	R2388-001
RICHLAND I.D.# 18 40619806. SPIKE WITH DIESEL; QUANTITATE BOTH DIESEL AND MOTOR OIL.								
2	AN - Amber Glass-120ML	TPH/8015/Q4	S	COLD	07-JUL-94	22-JUN-94	R8E	(81942:100 81943:100)
1	AN - Amber Glass-60ML	PH/17/Q4	S	COLD	07-JUL-94	05-DEC-94	R8E	(81944:100)

3\*-Sample has not been rad screened.

0000010



5304  
**ANALYSIS REQUEST AND  
CHAIN OF CUSTODY RECORD\***

CUR#: 450  
Reference Document No. 453690  
Page 1 of 2

Project Name/No. 1 94-260  
Sample Team Members 2  
Profit Center No. 3 4632  
Project Manager 4 Van Pethey  
Purchase Order No. 6  
Required Report Date 11

Samples Shipment Date 7 6/9/94  
Lab Destination 8 St. Louis  
Lab Contact 9  
Project Contact/Phone 12  
Carrier/Waybill No. 13

Bill to: 5 ITAS Riceland  
Report to: 10 ITAS Riceland

**ONE CONTAINER PER LINE**

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre- 19 servative	Requested Testing 20 Program	Condition on 21 Receipt	Disposal 22 Record No.
40619801 A	BOBNV8/soil	6/8/94 9:20 See WHC	AG COC/RFA	120mL	4°C	See WHC COC/RFA	3°	
B		6/8/94 9:20	AG	120mL			3°	
C		6/8/94 9:20	AG	60mL			3°	
40619802 A	BOBNV9/soil	6/8/94 9:20	AG	120mL			3°	
B			AG	120mL			3°	
C			AG	60mL			3°	
40619803 A	BO8NW1/soil	6/8/94 9:45	AG	120mL			3°	
B		6/8/94 9:45	AG	120mL			3°	

Special Instructions: 23

Possible Hazard Identification: 24

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: 25

Return to Client ☐ Disposal by Lab ☐ Archive \_\_\_\_\_ (mos.)

Turnaround Time Required: 26

Normal ☒ Rush ☐

QC Level: 27

I ☐ II ☐ III ☐

Project Specific (specify): SDG W 0089

1. Relinquished by 28

(Signature/Affiliation)

ITAS

Date: 6/9/94

Time: 1600

1. Received by 28

(Signature/Affiliation)

Chas J. Daniels

Date: 10 June 1994

Time: 9:00

2. Relinquished by

(Signature/Affiliation)

Date:

Time:

2. Received by

(Signature/Affiliation)

Date:

Time:

3. Relinquished by

(Signature/Affiliation)

Date:

Time:

3. Received by

(Signature/Affiliation)

Date:

Time:

Comments: 29

0000011

White: To accompany samples

Yellow: Field copy

\*See back of form for special instructions.



INTERNATIONAL  
TECHNOLOGY  
CORPORATION

ANALYSIS REQUEST AND  
CHAIN OF CUSTODY RECORD (cont.)\*

Reference Document No. <sup>30</sup> 453690

Page 2 of 2

Project Name SDG W0089

Project No. 94-260

Samples Shipment Date 6/7/94

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre-19 servative	Requested Testing 20 Program	Tag Condition on 21 Receipt	Disposal 22 Record No.
40619803C	B08NW1/Soil	6/8/94 9:45 See WKC	60mL AG COC RFA		4°C	See WKC COC/RFA	3°	
40619804A	B08NW2/Soil	6/8/94 9:38	120mL AG				3°	FOR LAB
B			120mL AG				3°	USE ONLY
C			60mL AG				3°	
40619805A	B08NW3/Soil	6/8/94 9:29	120mL AG				5°	
B			120mL AG				5°	
C			60mL AG				5°	FOR LAB
40619806A	B08NW4/Soil	6/8/94 13:00	120mL AG				5°	
B			120mL AG				5°	
C			60mL AG				5°	FOR LAB
③ 6/9/94								
								FOR LAB
								USE ONLY
								FOR LAB
								USE ONLY
								FOR LAB
								USE ONLY
0000012								

White: To accompany samples

Yellow: Field copy

\*See back of form for special instructions.

Westinghouse  
Hanford Company

## CHAIN OF CUSTODY

Custody Form Initiator Craig E. Heiden

Company Contact Craig E. Heiden

Project Designation/Sampling Locations Riverland ERA 100-IU-1

Ice Chest No. RM #7

Bill of Lading/Airbill No. \_\_\_\_\_

Method of Shipment Hand Delivery / DOE Vehicle

Shipped to IT Laboratories, Richland, WA 99352

Possible Sample Hazards/Remarks \_\_\_\_\_

Telephone 376-2640

Collection Date 6/8/94

Field Logbook No. EFL-1042-3

Offsite Property No. W94-D-0573 #41

"STANDALONE DELIVERABLE"

### Sample Identification

406198

BOBNVB →	(2) 120 ml AG jars; (1) 60 ml AG jar	01 ABC
BOBNV9 →	(2) 120 ml AG jars; (1) 60 ml AG jar	02 ABC
BOBNW1 →	(2) 120 ml AG jars; (1) 60 ml AG jar	03 ABC
BOBNW2 →	(2) 120 ml AG jars; (1) 60 ml AG jar	04 ABC
BOBNW3 →	(2) 120 ml AG jars; (1) 60 ml AG jar	05 ABC
BOBNW4 →	(2) 120 ml AG jars; (1) 60 ml AG jar	06 ABC

### [ ] Field Transfer of Custody

### Chain of Possession

(Sign and Print Names)

Relinquished By	Date	Time	Received By	Date	Time
C.E. Heiden <i>[Signature]</i>	6/9/94	0750	Karen Schickling <i>[Signature]</i>	6-9-94	8:30

### Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments:		

DON'T SAY IT --- Write It!

DATE: April 22, 1993 93-33530-052

TO: J. E. Lindsey

SO-05

FROM: K. A. Smith

NI-06

Telephone: 6-3323

cc: R. H. Griffin S4-67  
R. E. Heineman R3-12  
J. W. Schmidt H6-30  
P. J. Valcich H6-04  
C. D. Wade NI-06  
KAS: File/LB

SUBJECT: FACILITIES/AREAS EXEMPT FROM RADIOLOGICAL RELEASE SURVEY

Add the following areas/ facilities to the approved exempt facility/area list:

FACILITY/ AREA

NAMES AND LOCATIONS: The 100-IU-1 Operable Unit and all waste sites contained within. Includes; Riverland Rail Yard Homestead Sites, Munition Cache, anti-aircraft artillery sites, and Military Exercise Sites. The Operable Unit is located south of the Vernita Bridge and west of Highway 240.

BASIS: With the exception of the Riverland Rail Site, the area has no history of work with radioactive materials within it's boundaries. The Rail Site was remediated in the 1960s and follow-up surveys with conventional instrumentation and USRADS show no areas containing elevated radiological levels. Core samples taken at the wash pad area were analyzed and found to contain less than 20 pCi/gram of total radioactive material. The site is located up-stream of the prevailing winds from the direction of Hanford operations and wind-blown contamination is not likely to be present.

REFERENCES: Radiation Survey Report numbers 127760, 127663, 128144, 145977.

CONTACT: If there are any questions concerning this exemption please contact C. D. Wade (6-3770) or K. A. Smith at 6-3323.

APPROVED: 

0000014



Contractor <b>Westinghouse Hanford</b>	<b>OFF-SITE PROPERTY CONTROL</b>	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT) <b>W94-0-0573#41</b>
---	--------------------------------------	---

**PART I - TO BE COMPLETED BY ORIGINATOR**

Department <b>Environmental Engineering Support</b>	Section <b>Field Characterization Projects</b>	Unit
The following items are to be shipped from		<input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Vendor
Routing <b>HANA CARRY</b>		<input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Vendor
Shipped to <b>IT Laboratories 2800 George Washington Way Richland, WA 99352</b>		Off-site Custodian
		Full Title

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1	<b>Polycooler. Samples packed in plastic bags and vermiculite. Samples stored with blue ice. Sample # BOBNV8, BOBNV9, BOBNW1, BOBNW2, BOBNW3 and BOBNW4 Weight _____ Cooler # _____</b>	

☐ Classified
 ☒ Unclassified
 ☐ Shipped Under DOE Contract
 ☐ Shipped Under Contractor's Use Permit Contract

Necessity for the Off-Site Use of this Property

**Samples require analysis that is not presently available on site.**

**0000015**

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING.

RM Clearance for Public Release <b>S. J. Eilenburg</b>	RM Survey No <b>765</b>	Date <b>6-9-94</b>
Location of Property (Area & Bldg.) <b>Riverland ERA 100-IV-1</b>	Contact <b>Craig E. Heiden</b>	Phone <b>316-2640</b>
Date Ready for Shipment <b>6/9/94</b>	Cost Code to be Charged <b>PB60AA / Org Code 88420</b>	Approximate Date This Property will be Returned <b>N/A</b>
Originated By <b>Craig E. Heiden</b>	Date	Authorized By <b>[Signature]</b>
Signature and Name of Property Control	Custodian Date	Date <b>6/7/94</b>
	Property Management Approval <b>[Signature]</b>	Date <b>6/8/94</b>

**PART II - TO BE COMPLETED BY SHIPPING**

Signature of Recipient <b>Kenneth Stettin</b>	Return Order No.	Date Issued	Purchase Order No.	Date Issued
Date <b>6-9-94 8:30</b>				

**DISTRIBUTION**

<b>By Originator</b> White, Green, Yellow, Pink - Property Management Goldenrod - Retain	<b>Shipping Operation - Sign all Copies and Forward to:</b> White - Property Management Green - Property Control Custodian (Issuing Office) Yellow - Retain Pink - Originator
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### SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 6-8-94 8:30 Client Name WHIC

Project/Client # 94-200 Batch or Case # N/A

Cooler ID (if noted on the outside of cooler) # 7

1. Condition of shipping container? O.K.

2. Custody Seals on cooler intact? Yes ☐ No ☒

3. Custody Seals dated and signed? Yes ☐ No ☒

4. Chain of Custody record is taped on inside of cooler lid? Yes ☒ No ☐

5. Vermiculite/packing material is: Wet ☐ Dry ☒

6. Each sample is in a plastic bag? Yes ☒ No ☐

7. Number of sample containers in cooler: 18

8. Samples have: ☒ tape ☐ hazard labels

☒ custody seals ☐ appropriate sample labels

9. Samples are: ☒ in good condition ☐ leaking

☐ broken ☐ have air bubbles

☐ other

10. Coolant present? Yes ☒ No ☐

Sample temperature 40C

11. The following paperwork should be accounted for (N/A if not applicable):

Chain of Custody #'(s) N/A

Request for analysis #'(s) N/A

Airbill # N/A Carrier N/A

12. Have any anomalies been identified above? Yes ☐ No ☒

13. Memos have been initiated for all anomalies identified above? Yes ☐

Printed Name/Signature Tom Gilmore Date/Time 6/9/94 0830

FORM NO. LS-042, Rev.0, 2/94

0000016

## SAMPLE ANALYSIS REQUEST

Date 6/8/94  
Telephone (509) 376-2640

**0000017**



INTERNATIONAL  
TECHNOLOGY  
CORPORATION

C.U.F. and C.O.C.

COPIED TO: Wade Price

DATE: 10 June 1994

TIME: 10:15

BY: Jeff Daniels

Condition Upon Receipt Variance Report  
ITAS - St. Louis Laboratory

Work Order No.: \_\_\_\_\_

Client: \_\_\_\_\_

Date: 10 June 1994

Project No: \_\_\_\_\_

Initiated by: Jeff Daniels

Analysis Requested: Refer to RFA/COC

RFA/COC Numbers: 453690

Client Sample Numbers Affected: Entire Login

Condition/Variance (Check all that apply): Circle Number to Denote that Item was Evaluated. "NA" = "Not Applicable".

1. NA	Not enough sample received for proper analysis. Received approximately: _____	8. <input type="checkbox"/>	Custody tape disturbed/broken/missing.
2. <input type="checkbox"/>	Sample received broken/leaking.	9. NA	Sample splits performed by lab.
3. <input type="checkbox"/>	Sample received without proper preservative. <input type="checkbox"/> Cooler temperature not within $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Record temperature: <u>Cooler = <math>2^{\circ}\text{C}</math> / Cooler = <math>5^{\circ}\text{C}</math></u>	10. NA	Volatile sample received with approximately _____ mm headspace.
4. <input type="checkbox"/>	Sample received in improper container.	11. <input type="checkbox"/>	Sample ID on container does not match sample ID on paperwork. Explain: _____
5. <input type="checkbox"/>	Sample received without proper paperwork. Explain: _____	12. <input type="checkbox"/>	All coolers on airbill not received with shipment.
6. <input type="checkbox"/>	Paperwork received without sample.	13. <input checked="" type="checkbox"/>	Other (explain below): <u>Shipping containers not red surveyed.</u>
7. <input type="checkbox"/>	No sample ID on sample container.		

Notes: Two unlabeled trip blanks (40mL AG) received.

Corrective Action:

☐ Client's Name: \_\_\_\_\_ Informed verbally on: \_\_\_\_\_ By: \_\_\_\_\_

☐ Client's Name: \_\_\_\_\_ Informed in writing on: \_\_\_\_\_ By: \_\_\_\_\_

☐ Sample(s) processed "as is". Comments: \_\_\_\_\_

☐ Sample(s) on hold until: \_\_\_\_\_ If released, notify: \_\_\_\_\_

Sample Control Supervisor Review: (or designate) Jeff Daniels Date: 10 June 1994

Project Management Review: \_\_\_\_\_ Date: \_\_\_\_\_

0000018